

### ABSTRACT OF THE DISCLOSURE

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An apparatus and method for measuring the bit error ratio of a transmission system is provided, which can accurately report the degradation of the service quality of a line to an operator by accurate BER calculation under an exceptional situation where an excessive error is instantaneously generated. This is preferably accomplished by storing the number of bit errors in buffers at an interval of time  $T$ , scoping these buffers by a sliding window of a preset size, and judging whether or not an E-BER alarm is generated using the average number of bit errors of the scoped sliding window buffers. In addition, it is also possible to intermittently report an error repair situation under which an error is generated by scoping buffers by a sliding window of a set size and judging whether or not an E-BER alarm is cleared using the average number of errors of the scoped sliding window buffers, for thereby accurately and rapidly operating the system.